WHAT IS CLAIMED IS:

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base lubricating oil cuts with the solvent.

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l	1.	A method of purifying used oil comprising the steps of:
2		providing a predetermined quantity of used oil:
3		contacting the used oil with a predetermined quantity of a base:
4		contacting the used oil with a predetermined quantity of a phase transfer
5		catalyst;
6		mixing the composition comprising used oil, base, and phase transfer catalyst for
7		a predetermined period of time;
8		heating the composition to a predetermined temperature;
9		distilling the resultant mixture;
10		mixing the resulting distillate with a solvent thereby dissolving the contaminants
11		from the petroleum distillate into the solvent;
12		separating the solvent having the contaminants dissolved therein from the
13		petroleum distillate;
14		subsequently separating the contaminants from the solvent and recovering the
15		solvent:
16		recovering any remaining solvent from the petroleum distillate; and
17		reusing the recovered solvent to extract contaminants from subsequent
18		quantities of petroleum distillate.
l	2.	The method of Claim 1 wherein the distilling step removes water and catalyst and
2	produ	ices base lubricating oil from the mixture.

The method of Claim 1 wherein the distilling step produces at least two base lubricating

oil cuts, and wherein the subsequent mixing step is carried out by separately mixing each of the